

KOEHRING MACHINE CO.

Concrete Mixers, Bar Benders and Cutters

MILWAUKEE, WIS.

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Products and Service.

HEAVY DUTY CONSTRUCTION CONCRETE MIXERS;
HEAVY DUTY PAVING MIXERS; DANDIE LIGHT MIXER;
 MIXER LOADER; HOT MIXERS—Construction and Paver Type.

Rotary Grader; Bar Benders and Cutters.

Koehring Sales and Service Branches, and warehouses in every principal city insure responsible, quick service.

Standardized Concrete.

The Koehring re-mixing action and automatic water measuring tank make it easy to standardize mix for uniformity and consistency.

The re-mixing action is secured by means of the discharge chute pivoted well inside the drum, sloping inward in mixing position, and out through the opening when discharging. Diagonal blades cut through the mixture, carrying it up the drum sides to a point where it spills backward, in a rolling action. Pick-up buckets then carry mixture to the top of drum, spilling it down on the insloping discharge chute in a cascade action which prevents aggregate gathering according to size. From the discharge chute it is hurled back to the diagonal blade on the charging side of the drum for repeated trips through the mixing action.

This re-mixing action is only possible because of the Koehring patent, which pivots the discharge chute *inside* the drum far enough to return aggregate to the charging side of the drum. Design of pick-up buckets gives fast discharge.

Fast Operation.

High speed operation is secured by automatic actions which permit operator to maintain top capacity operation every minute of the day; and to heavy duty construction which permits continuous high speed operation without breakdowns and delay.

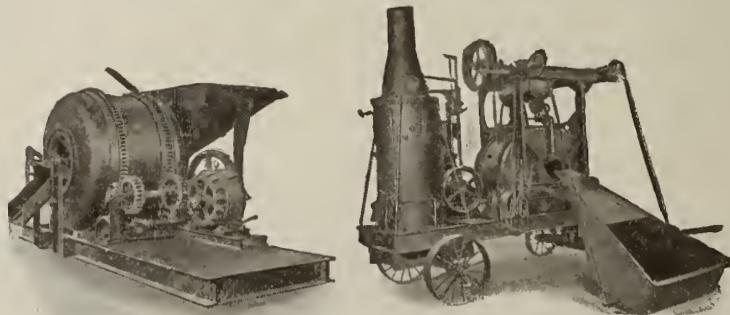
Fast, clean charging is due to high speed elevation of charging skip, which goes to extreme angle by passing between the skip cable sheaves, chuting charge into drum in one swift, clean slide.

Charging skip automatically stops in discharge posi-

tion until released. Size and design of pick-up buckets insure fast discharge of drum during the time the skip with new charge raises to charging position.

Drum.

Drumheads and runways are single castings of special close grained metal. Rounded corners prevent clogging. Flanges are turned true, to secure watertight joint with heavy boiler plate center shell. Double gear drive minimizes vibration, and furnishes reserve drive.



KOEHRING CONCRETE MIXERS

Trunnion Rollers.

Trunnion rollers are fixed to shaft, and shaft revolves in big babbitted bearings easily accessible on frame, and constructed so wear may be taken up. This construction eliminates wobbly drums and preserves perfect alignment of driving mechanism.

Frame and Trucks.

Trucks have 3-point suspension, and with superstructure are built of extra heavy pressed steel members, riveted and gusseted at joints.

Friction Clutch.

Consists of housing with sleeve for gear, in which are front plate and master disc, separated by friction disc. Maple block frictions inserted through opening in disc receive wear on end of grain. Winding drums have bronze bushing with graphite embedded for lubrication.

Power.

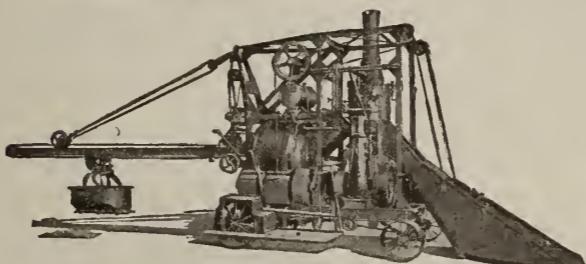
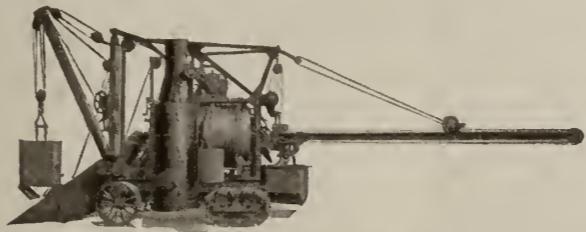
Gasoline, steam or electric motor of standard high grade manufacture. Boilers to conform with laws of any state. Surplus power on all sizes.

Equipment.

Low charging platforms, batch or standard hopper, power charging skips, automatic water measuring tank; also on pavers, boom and bucket concrete distributing system, and gravity spouts.

Koehring Pavers.

The fastest paving unit with boom and bucket distribution. Narrow design, giving liberal working room around the mixer. Low center of gravity. Boom swings on arc of 180°. May be had with loading derrick for lifting batch boxes over charging skip. Caterpillar traction or round road wheels. The biggest paver line—5 sizes.



KOEHRING STREET PAVERS

QUANTITY OF AGGREGATE STANDARD PROPORTION PER BATCH, KOEHRING PAVERS AND CONSTRUCTION MIXERS

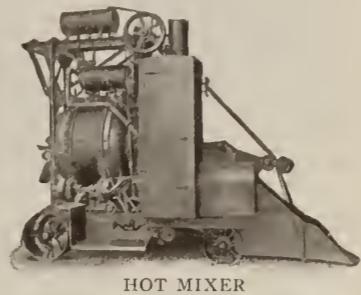
Construction Paving	Proportion	No. 7S No. 7E	No. 10S No. 10E	No. 14S No. 14E	No. 21S No. 21E	No. 28S No. 28E
Cement, bag.....	1	2	3	4	6	8
Sand, cu. ft.	1½	3	4½	6	9	12
Stone, cu. ft.	3	6	9	12	18	24
Cement, bag.....	1	1½	2½	3½	5	7
Sand, cu. ft.	2	3	5	7	10	14
Stone, cu. ft.	3	4½	7½	10½	15	21
Cement, bag.....	1	1½	2½	3	5	6½
Sand, cu. ft.	2	3	5	6	10	13
Stone, cu. ft.	3½	4¾	8¾	10½	16¾	22¾
Cement, bag.....	1	1½	2	3	4½	6½
Sand, cu. ft.	2	3	4	6	9	13
Stone, cu. ft.	4	6	8	12	18	26
Cement, bag.....	1	1	2	2½	4	5½
Sand, cu. ft.	2½	2½	5	6½	10	13¾
Stone, cu. ft.	4	4	8	10	16	22
Cement, bag.....	1	1	2	2½	4	5½
Sand, cu. ft.	2	2	4	5	8	11
Stone, cu. ft.	5	5	10	12½	20	27
Cement, bag.....	1	1	1½	2½	4	5
Sand, cu. ft.	2½	2½	3¾	6½	10	12½
Stone, cu. ft.	5	5	7½	12½	20	25
Cement, bag.....	1	1	1½	2	3½	4½
Sand, cu. ft.	3	3	4½	6	10½	13½
Stone, cu. ft.	5	5	7½	10	17½	22½
Cement, bag.....	1	1	1½	2	3	4½
Sand, cu. ft.	3	3	4½	6	9	13½
Stone, cu. ft.	6	6	9	12	18	27
Cement, bag.....	1	1	1½	2	3	4
Gravel, cu. ft.	6	6	9	12	18	24

To obtain best results the size of batch should not exceed the quantity as listed in the column under size of mixer. The rating is based on using 1½-in., or larger, crushed rock and full bag batches.

Koehring Hot Mixers.

Koehring hot mixers are combination heating plants and mixers for bituminous road mixtures, sheet asphalt, rock asphalt, mastic floor, and for cement concrete.

Combustion takes place in double burner oil furnace with brick lined chamber, and lined conduit. Heated gases and air are injected into drum by blower. Fuel oil or kerosene may be used.



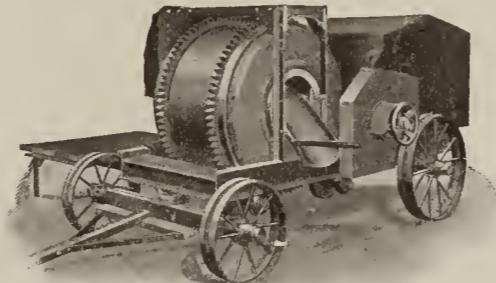
HOT MIXER

To use as hot mixer, make connection with blower and asphalt tank; to use with concrete cement, disconnect asphalt tank and blower and connect water tank.

Koehring hot mixers are built both in side charging type and paver end charging type.

Dandie Light Mixers.

A light mixer for general work such as culverts, footings, foundations, sidewalks, etc. Double drum drive, single section discharge chute, steel engine house, ball and socket bearings. A strong, dependable light mixer, built in big volume, every part standardized, 4- and 7-cu. ft. capacities, mixed concrete. May be equipped with low charging platform, batch hopper, or power charging skip, automatic water measuring tank and light duty hoist.



DANDIE LIGHT MIXER

Koehring Mixer Loaders.

A belt conveyor, on a portable frame, self-driven by gasoline engine. Hopper bins above belt are adjustable for any size mixer and any proportion of "mix." Striking off materials at top of bins accurately measures materials. Lever opens bottom of bins, allowing materials to drop on belt conveyor, moving 100 ft. per minute, delivering materials into charging skip of mixer. Hopper bins movable along frame to any point. Cuts out all wheeling—delivers materials from any point within 60 ft. of mixer.



MIXER LOADER